

A dynamic, high-speed photograph of a water splash, creating a sense of movement and freshness. The water is captured in mid-air, with various droplets and streams visible against a light blue background.

Liquid Cooling Products and Solutions

CorefloX

COREFLOX SG PTE. LTD.

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COREFLOX SG PTE. LTD.

Company Profile

CorefloX is a technology-leading ICT cooling product and solution provider, integrating industrial research and development, solution provision, and full lifecycle services of cooling technology into one high-tech manufacturing enterprise.

At CorefloX, our mission is to deliver innovative cloud solutions to International Hyperscaler and Colo. By providing our scalable cooling infrastructure to operate efficiently and securely, we are committed to stay agile in the face of change, turning challenges into opportunities for growth.

Cold Plate Liquid Cooling Product -CF-BCDU

Rack Level CDU CF-BCDU-30/80/140



Product Feature

- **High efficiency energy saving:** Annually free cooling ultra low energy consumption
- **High Maintainability:** Pumps support online hot-swapping
- **High reliability:** Key components redundancy, condensation protection, dual power input, leakage detection, 24 hour X 365 day, continuous life cycle more than 10 years
- **High availability:** Wide range cooling capacity, pressure drop adjustable, step-less control
- **High cleanliness:** Hygiene pipe with fine filtration
- **Communication:** RS485, RJ45
- **Protocol:** Modbus, TCP, UDP

Rack Level CDU

Model	CF-BCDU-30	CF-BCDU-80	CF-BCDU-140
Rated heat transfer capacity kW	30	80	140
Net Weight kG	60	100	140
H x W x D mm	177×447×900	177×447×900	177×447×900
Power supply	AC220/DC48	AC220/DC48	AC220/DC48

Secondary Loop Technical Data

Coolant	DI water/PG25	DI water/PG25	DI water/PG25
Rated supply/return temperature °C	40/55	40/55	40/55
Rated supply/return pipe connection	1" chuck	1" chuck	1.25" chuck
Rated liquid flow rate L/min	31	82	135
Max. Pressure bar	6	6	6

Primary Loop Technical Data

Coolant	DI water/PG25	DI water/PG25	DI water/PG25
Rated supply/return temperature °C	35/50	35/50	35/50
Rated supply/return pipe connection	1" chuck	1" chuck	1.25" chuck
Allowable coolant supply temperature range °C	8-35	8-35	8-35
Max. Pressure bar	10	10	10

- According to the actual load of the customer, the temperature, pressure drop and flow rate of the secondary loop can be adjusted automatically.
- CDU technical data can be calculated according to the customer's real conditions.
- Pictures for reference only

Cold Plate Liquid Cooling Product -CF-GCDU

Row Level CDU CF-GCDU-300/340/370/410



Product Feature

- **High efficiency energy saving:** Annually free cooling ultra low energy consumption
- **High reliability:** Key components redundancy, condensation protection, circulation pump, valve keeps function. Dual power input, switch over without shutdown, leakage detection
- **Smart control:** Multi-mode, pressure diff. control, flow rate control, cold standby, hot standby, independent operation, group control, local/remote control, group control
- **High compatibility:** CPU plus GPU cold plate liquid cooling combined application
- **High availability:** Wide range cooling capacity, pressure drop adjustable, step-less control
- **High flexibility:** Multi optional function available. Pipe direction, filter class, communication, etc
- **Modular design:** Combined cabinet installation
- **Easy maintenance:** Reasonable internal layout, frontal and rear access, automatic online refilling
- **High cleanliness:** Hygiene pipe with fine filtration
- **Communication:** RS485, RJ45
- **Protocol:** Modbus, TCP, UDP

Row Level CDU

Model	CF-GCDU-300	CF-GCDU-340	CF-GCDU-370	CF-GCDU-410
Rated heat transfer capacity kW	300	340	370	410
Net Weight kg	670	720	670	720
H x W x D mm	2200x600x1200	2200x600x1200	2200x600x1200	2200x600x1200
Power supply	AC380	AC380	AC380	AC380

Secondary Loop Technical Data

Coolant	DI water			
Rated supply/return temperature °C	40/50	40/50	40/50	40/50
Rated supply/return pipe connection	DN65	DN65	DN65	DN65
Rated liquid flow rate L/min	436	494	537	595
Max. Pressure bar	10	10	10	10

Primary Loop Technical Data

Coolant	DI water			
Rated supply/return temperature °C	35/45	35/45	35/45	35/45
Rated supply/return pipe connection	DN65	DN65	DN65	DN65
Allowable coolant supply temperature range °C	8-35	8-35	8-35	8-35
Max. Pressure bar	10	10	10	10

- According to the actual load of the customer, the temperature, pressure drop and flow rate of the secondary loop can be adjusted automatically.
- CDU technical data can be calculated according to the customer's real conditions.
- Pictures for reference only

Cold Plate Liquid Cooling Product -CFUS-GCDU

Row Level CDU CFUS-GCDU-600/1000/1250/1700



Product Feature

- **High efficiency energy saving:** Annually free cooling ultra low energy consumption
- **High reliability:** Key components redundancy, condensation protection, circulation pump, valve keeps function. Dual power input, switch over without shutdown, leakage detection
- **Smart control:** Multi-mode, pressure diff. control, flow rate control, cold standby, hot standby, independent operation, group control, local/remote control, group control
- **High compatibility:** CPU plus GPU cold plate liquid cooling combined application
- **High availability:** Wide range cooling capacity, pressure drop adjustable, step-less control
- **High flexibility:** Multi optional function available. Pipe direction, filter class, communication, etc
- **Modular design:** Combined cabinet installation
- **Easy maintenance:** Reasonable internal layout, frontal and rear access, automatic online refilling
- **High cleanliness:** Hygiene pipe with fine filtration
- **Communication:** RS485, RJ45
- **Protocol:** Modbus, TCP, UDP
- **Available worldwide:** It complies with CE and UL certification standards, and can be designed, tested and supplied globally

Row Level CDU

Model	CFUS-GCDU-600	CFUS-GCDU-1000	CFUS-GCDU-1250	CFUS-GCDU-1700
Rated heat transfer capacity kW	600	1000	1250	1700
Net Weight kg	725	805	1000	1130
H x W x D mm	2200x600x1200	2200x600x1200	2050x900x1200	2050x900x1200
Power supply	AC480/AC380	AC480/AC380	AC480/AC380	AC480/AC380

Secondary Loop Technical Data

Coolant	DI water			
Rated supply/return temperature °C	35/50	35/50	35/50	35/50
Rated supply/return pipe connection	DN80	DN80	DN100	DN100
Rated liquid flow rate L/min	580	967	1209	1644
Max. Pressure bar	10	10	10	10

Primary Loop Technical Data

Coolant	DI water			
Rated supply/return temperature °C	31/42	31/42	31/42	31/42
Rated supply/return pipe connection	DN80	DN80	DN100	DN100
Allowable coolant supply temperature range °C	8-35	8-35	8-35	8-35
Max. Pressure bar	10	10	10	10

- According to the actual load of the customer, the temperature, pressure drop and flow rate of the secondary loop can be adjusted automatically.
- CDU technical data can be calculated according to the customer's real conditions.
- Pictures for reference only

Cold Plate Liquid Cooling Product -CF-FCDU

Room Level CDU CF-FCDU-400/600/1200



Product Feature

- **High efficiency energy saving:** Annually free cooling ultra low energy consumption
- **High reliability:** Key components redundancy, condensation protection, pump and valve function keeps, dual power supply during switch over without shutdown, leakage detection
- **Smart control:** Multi-mode, pressure diff. control, flow rate control, cold standby, hot standby, independent operation, group control, local/remote control, group control
- **High compatibility:** CPU plus GPU cold plate liquid cooling combined application
- **High availability:** Wide range cooling capacity, pressure drop adjustable, step-less control
- **High flexibility:** Multi optional function available. Pipe direction, filter class, communication, etc
- **Integrated design:** Complex function, can achieve high head, huge volume, applied for large size loop network
- **Easy maintenance:** Wide range maintenance can be realized, reasonable internal layout and easy to maintain, and online automatic refilling can be realized
- **High cleanliness:** Hygiene pipe with fine filtration
- **Communication:** RS485, RJ45
- **Protocol:** Modbus, TCP, UDP

Room Level CDU

Model	CF-FCDU-400	CF-FCDU-600	CF-FCDU-1200
Rated heat transfer capacity kW	400	600	1200
Net Weight kg	930	1300	≤ 1200
H x W x D mm	2200x1400x900	2200 x 1600 x 1000	1800 x 800 x 2000
Power supply	AC380	AC380	DC540V

Secondary Loop Technical Data

Coolant	DI water	DI water	25% propylene glycol / DI water
Rated supply/return temperature °C	40/45	40/45	36/47
Rated supply/return pipe connection	DN100	DN100	DN100
Rated liquid flow rate L/min	1160	1740	1666
Max. Pressure bar	10	10	10

Primary Loop Technical Data

Coolant	PG30	PG30	DI water
Rated supply/return temperature °C	35/40	35/40	34/43
Rated supply/return pipe connection	DN100	DN100	DN100
Allowable coolant supply temperature range °C	8-35	8-35	8-34
Max. Pressure bar	10	10	10

- According to the actual load of the customer, the temperature, pressure drop and flow rate of the secondary loop can be adjusted automatically.
- CDU technical data can be calculated according to the customer's real conditions.
- Pictures for reference only

Cold Plate Liquid Cooling Product Series-CF-DSI

DSI Indoor Dual-Cooling-Source Unit

CF-DSI-1000



Product Feature

- Dual cooling source: natural cooling first, mechanical cooling as backup to reduce annual energy use.
- High reliability: redundant cooling sources with automatic switching for continuous operation.
- Smart control: automatic switching among natural, hybrid, and mechanical cooling modes.
- High adaptability: designed for AI computing centers, intelligent computing centers, and high-density data centers.
- High flexibility: piping, water quality, monitoring, filtration, and communication options can be customized.

DSI Indoor Dual-Cooling-Source Unit Technical Specifications

Model CF-DSI-1000

Parameter	Natural Cooling	Mechanical Cooling
Configuration	Natural Cooling	Mechanical Cooling
Dimensions H x W x D mm	1800 x 850 x 2000	1800 x 850 x 2000
Rated heat exchange capacity kW	350	650
Secondary-side liquid	Water	Water
Primary-side rated flow m3/h	96.5	96.5
Secondary-side rated flow m3/h	60	60
Flow resistance kPa	<=100	<=100
Supply liquid temperature deg C	43	43
Return liquid temperature deg C	24	24
External pipe interface	101.6 mm chuck	101.6 mm chuck
Maximum power consumption kW	<=100	<=100
Communication interface	RS485, RJ45	RS485, RJ45
Communication protocol	MODBUS RTU and MODBUS TCP	MODBUS RTU and MODBUS TCP
Power specification	AC380V / 3 / 50HZ	AC380V / 3 / 50HZ
Cooling form	Natural cooling + mechanical cooling	Natural cooling + mechanical cooling
Noise level dB(A)	<=75	<=75
Product net weight kg	2000	2000
Product color	RAL9005 (customizable)	RAL9005 (customizable)

Note:

1. The air-to-liquid ratio can be automatically adjusted based on actual operating conditions.
2. Technical parameters can be selected according to customer application conditions.
3. Images are for illustration only and do not represent the actual product.

Cold Plate Liquid Cooling Product Series-CF-DSO

DSO (Outdoor Dual-Cooling-Source) CF-DSO-1000



Product Feature

- **High Energy Efficiency:** Year-round free cooling; in some application scenarios, chillers can be turned off for ultra-low energy consumption.
- **High Water Efficiency:** Air is used as the cooling medium, saving water resources.
- **High Reliability:** Continuous operation for 24 hours a day, 365 days a year, with a service life of no less than 10 years.
- **High Intelligence:** Multi-mode control, supporting various control modes such as cold standby, hot standby, single machine, group control, local, and remote. Multiple devices can automatically form a network for group control management.
- **High Adaptability:** Wide range of cooling capacity and temperature regulation, supporting dynamic air-to-liquid ratio.
- **High Flexibility:** In addition to the standard configuration, various additional functions are available. Flexible options for pipe direction, filtration grade, communication protocol, etc.
- **Modular Design:** Modular design, supporting modular assembly and high integration.
- **Easy Maintenance:** Rational internal layout for easy maintenance, with the capability for online automatic fluid replenishment.
- **Communication Methods:** Supports RS485 serial port and RJ45 network port.
- **Communication Protocols:** Supports standard protocols such as Modbus, TCP, UDP.
- **High Cleanliness:** Sanitary-grade piping, capable of direct liquid cooling supply

DSO (Outdoor Dual-Cooling-Source)**CF-DSO-1000**

<i>Configuration</i>	<i>Dry Cooler</i>	<i>Mechanical Cooling</i>
<i>Length (mm)</i>	8000	2000
<i>Width (mm)</i>	3000	≤3000
<i>Height (mm)</i>	3000	≤3000
Rated Conditions		
<i>Rated Heat Transfer Capacity</i>	700 (liquid cooling)	300 (air cooling)
<i>Cooling Medium</i>	Water	Water
<i>Rated Flow Rate (m³/h)</i>	60	30
<i>Flow Resistance (kPa)</i>	≤100	-
<i>Ambient Temperature(°C)</i>	35	35
<i>Supply Liquid Temperature(°C)</i>	40	18
<i>Return Liquid Temperature(°C)</i>	50	26
<i>External Pipe Interface</i>	DN100 flange	76.1 mm chuck
<i>Maximum Power Consumption (kW)</i>	38.4	90
<i>Communication Interface</i>	RS485, RJ45	RS485, RJ45
<i>Communication Protocol</i>	MODBUS RTU and MODBUS	MODBUS RTU and MODBUS
<i>Power Specification</i>	AC380V/3/50HZ	AC380V/3/50HZ
<i>Cooling Form</i>	Air cooling (EC fans)	Water cooling
<i>Noise Level (dB(A))</i>	75 (measured 15m from the dry cooler, 1.5m high)	75 (measured 15m from the dry cooler, 1.5m high)
<i>Product Net Weight (kg)</i>	3000	1000
<i>Product Color</i>	RAL9005 (customizable based on customer requirements)	RAL9005 (customizable based on customer requirements)

- The air-to-liquid ratio can be automatically adjusted based on the actual customer situation.
- Technical parameters can be selected and supported according to the customer's application conditions.
- The image is for illustration purposes only and does not represent the actual product.

Cold Plate Liquid Cooling Product -CF-MF

Manifold

CF-MF-42U/48U/56U

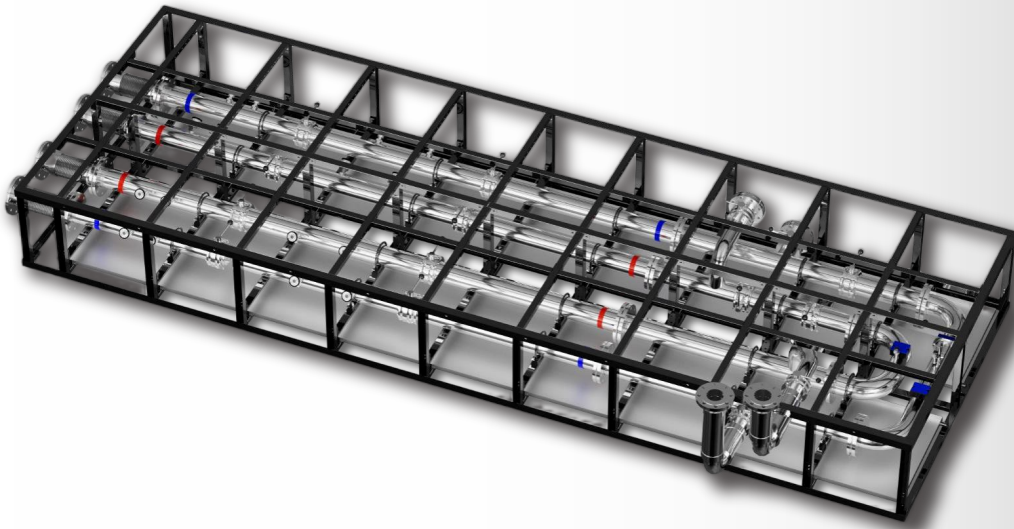


Product Feature

- Auto air vent, air vent online maintenance
- Uniform flow rate, distribution evenly
- Quick connection, easy operation without leakage
- Clean room class production 100% He detection
- High reliability, multi processes optional
- N2 pressurized, clean and with good air tightness

Prefabricated Product -CF-YG

Prefabricated Piping CF -YG



Product Feature

- Customization
- Millimeter accuracy
- Numeric archive, laser marking
- Weld joint nondestructive testing
- Microwave pipe cleaning
- 3D design, factory prefabricated, N2 pressurized
- Quick installation
- Hygiene pipe
- Optional materials stainless steel, PPH, PPRCT

Cold Plate Liquid Cooling Product -CF-BYC

Cart For Liquid Refilling CF-BYC-200/500



Product Feature

- Simple operation, easy to refilling
- Big size tank
- Built-in flow switch, high reliability
- Refilling remotely
- Robust structure, easy to move
- Simple user interface
- Compatible for high/low speed filling

Cart For Liquid Refilling

Model	CF-BYC-200	CF-BYC-500
Top off (fill single rack)	Yes	Yes
System fill (fully fill secondary loop)	Yes	Yes
H x W x D mm	1291x865x1546	1291x1010x1588
Net and dry weight Kg	220	350
Max operating weight (full tank) Kg	420	750
Volume of storage tank L	200	500
Power supply	230V/1Ph/50-60Hz	230V/1Ph/50-60Hz
Full Load Power Consumption Watts	0.8kw	1kw
Operation ambient temperature range °C	5~60°C	5~60°C
Operation Temperature range ° C	5~60°C	5~60°C
Maximum operation pressure PSI	3.0	3.0
Storage temperature range ° C	-20~60°C	-20~60°C
Easy connection	Yes	Yes
2-way charge/drain switch	Yes	Yes
Portable kit design	Yes	Yes
Over Current Protection	Yes	Yes
Built-in flow switch	Yes	Yes
Compatible for high/low speed filling	Yes	Yes
Flow discharge rate LPM	10	50
Connect with a hose	through the hose ree	through 5-meter one-inch EPDM hose

• Pictures for reference only

Cold Plate Liquid Cooling Product -CF-LB

Cold Plate Liquid Cooling Load Bank JLLB-30



Product Feature

- Temperature protection, overpressure trip off
- Hygiene pipe with fine filtration
- Server pressure drop simulator
- No PTFE tape, good air tightness
- Power adjustable, matchable elec. connections
- HMI, showing real time data
- Leakage detection
- High safety, leakage detection, RCD, overtemperature alarm (80oC), earthed, overvoltage protection, etc

Cold Plate Liquid Cooling Load Bank

Model	CF-JLLB-30
Rated heat capacity kW	30
Height x Width x Depth mm	267x432x719
Utility	AC220
Max. Pressure bar	10
Air tightness	1.2MPa PD, 2 hours no leakage
Simulated pressure drop	Adjustable
Insulation Class	F
Inlet liquid temperature range °C	5-75

- Pressure drop calibration before delivery base on server condition, such as 27LPM@40kPa
- Pictures for reference only

Cold Plate Liquid cooling Product -CF-LB

Cold Plate Liquid-Cooled Load Bank Cabinet CF-LC-DLC-180



Product Feature

- **Accurate Simulation Operation:** It can equivalently simulate the actual heating power, electrical load and liquid flow resistance characteristics of the cold-plate liquid-cooled entire cabinet, ensuring that the test scenario is highly consistent with the actual application scenario.
- **Full-Dimensional Interface Compatibility:** The electrical interfaces and liquid routing interfaces strictly match the specifications of the cold-plate liquid-cooled entire cabinet, ensuring the accuracy and compatibility during the testing process.
- **Wide Power Adjustment:** It supports power adjustment in the range of 0-180kW. A single dummy load can achieve precise adjustment at each level within the range of 0-30kW, meeting different test power requirements.
- **Multiple Safety Protections:** It is equipped with alarm functions for over-temperature, over-pressure, under-pressure, abnormal flow and other conditions. After an over-pressure or over-temperature alarm is triggered, the unit will shut down automatically, and there are clear electrical safety operation specifications.
- **Data Exportable:** It supports exporting historical operation data via USB flash drive, and the optional TCP/IP data upload function facilitates subsequent data review and analysis.

Cold Plate Liquid-Cooled Load Bank Cabinet

Model	CF-LC-DLC-180
Power supply	400Vac-50Hz-3P+N+PE
Rated Power	180kW
Electrical Interface	Inside: 63A CEEFORM Socket*6 Outside: 63A CEEFORM Plug*6
Applicable Server	Server racks of GB200, GB300, or other types with a power rating of $\leq 180\text{kW}$
Loading Method	Manual Loading
Temperature Range	5-75 °C
Pressure Rating	1.0MPa
Sensor Accuracy	Class 0.5
Protection grade	IP20, Indoor
Form Factor	48U
External Dimensions	600mm *1400mm *2200mm
Weight	About 600kg
Color	RAL9005 Black
Data export	USB flash drive (with optional TCP/IP data upload function)

Cold Plate Liquid Cooling Product - CF-JH

Coolant Filtration Unit CF-JH-83



Product Feature

- **Easy Operation:** Simple operation, easy disassembly, and convenient on-site deployment and maintenance.
- **Multi-stage Filtration:** Supports multiple filtration precision levels for stable coolant purification.
- **Stable Pressure:** Equipped with a circulation pump to help maintain stable system pressure before and after connection.
- **Online Maintenance:** Supports coolant refill and drain during system operation for easier fluid maintenance.
- **Non-intrusive Connection:** Suitable for loop-level filtration and parallel system connection with minimal impact on system operation.
- **Easy Mobility:** Bottom caster design enables convenient movement and provides good structural strength.
- **Simple Interface:** Clear and intuitive user interface for easy monitoring and operation.

Coolant Filtration Unit

Model	CF-JH-83
Dimensions (W x D x H), mm	600 x 1000 x 1705
Coolant	Deionized water + additive / EG25 / PG25
Coarse filtration precision, um	50
Coarse filtration flow rate, m³/h	5
Coarse filtration material	304 stainless steel, EPDM
Intermediate filtration precision, um	1
Intermediate filtration flow rate, m³/h	5
Intermediate filtration material	PES, EPDM, 304 stainless steel
Fine filtration precision, um	0.22
Fine filtration flow rate, m³/h	5
Fine filtration material	PES, EPDM, 304 stainless steel
Maximum operating pressure, bar	6
Power supply	AC220V±10% / 50Hz
Rated power, kW	≤1.5
Easy connection	Supported
Monitoring system sensor	Supported
Corrosion monitoring	Optional
Portable kit design	Supported

· Pictures for reference only

Cold Plate Liquid Cooling Product - CF-CJX

Ultrafiltration Bypass Unit CF-CJX-16-002



Product Feature

- **Dual-stage Filtration:** Dual-stage filtration improves impurity capture and helps maintain stable filtration performance.
- **Visual Display:** Equipped with a display screen for clear operating status and easier on-site operation and maintenance.
- **Easy Installation:** Simple operation and easy installation support fast deployment and routine maintenance.
- **High Precision:** High filtration precision helps improve coolant cleanliness and maintain stable operation.
- **High Compatibility:** Excellent material compatibility supports multiple coolant systems and repeated use.
- **Bypass Filtration:** Suitable for rack-level and loop-level bypass filtration through parallel system connection.
- **Lightweight Design:** Compact structure enables easy movement while maintaining strength and field adaptability.

Ultrafiltration Bypass Unit

Model	CF-CJX-16-002
Dimensions (W x D x H), mm	400 x 500 x 700
Coolant	Deionized water + additive / EG25 / PG25
Coarse filtration precision, um	5
Filtration flow rate, m³/h	1
Wetted material	304 stainless steel, EPDM
Ultrafiltration precision, um	0.22
Ultrafiltration flow rate, m³/h	1
Ultrafiltration material	PES, EPDM, 304 stainless steel
Maximum operating pressure, bar	4
Power supply	230V
Easy connection	Supported
Monitoring system sensor	Supported
Corrosion monitoring	Optional
Portable kit design	Supported

· Pictures for reference only



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